

Infiltration Trench Construction Sequence

Before construction of the infiltration trench, all areas draining to the trench must be at final grade and stabilized. Absolutely no equipment shall be in the actual trench area once construction on the trench has started. All excavation with heavy equipment shall be done from the side. All stone used in the trench shall conform to the infiltration stone specification.

1. Should trench construction be necessary prior to vegetative stabilization of the contributing drainage areas as approved by the Engineer with concurrence from the Stormwater Engineer, the minimum shall be required. Inflow swales will have an 18" compost filter log placed 25 feet before the edge of the proposed trench or closer if directed by the Engineer. Other inflow areas, including side slopes, will have silt fence or 18" compost filter log installed so that runoff is intercepted before entering the trench area. These items will remain until surrounding vegetation is established.
2. Excavate the trench to the dimensions shown on the plans and scarify the bottom.
3. Post-construction infiltration testing shall be performed as per DNREC documentation.
4. Install geotextile on all trench sides making sure to have enough extra to cover the top of the trench completely after stone is placed and having at least 1 foot of overlap of the geotextile. The only area that is not covered with geotextile is the bottom.
5. Place the inspection port as shown in the plans.
6. Add #3 infiltration stone.
7. After stone placement, immediately cover the entire top of the trench with the excess geotextile and sparingly secure with #3 stone, so geotextile does not move.
8. The same day that the trench is completed, permanently stabilize the disturbed area around the trench with Permanent Seed – Dry Ground and Erosion Control Blanket.
9. Inspect the trench and remove loose sediment after every rain event. Ensure E&S controls are properly functioning.
10. After all surrounding areas draining to the trench have sufficient vegetation, as determined by the Stormwater Engineer, E&S devices shall be removed and the excess geotextile removed from the top.